

Residential Deck Drawings

General Notes

1. All lumber shall be pressure treated for exterior use. All metal fasteners & hangers shall be G185 galvanized, stainless steel or otherwise compatible with the wood treatment. *All bolts shall be 1/2" diameter, minimum.*

2. All beams, joists, posts and decking shall be No. 2 Southern Pine, or better.

3. All beam splices and top rails shall occur at a post or otherwise on adequate bearing.

4. All footings shall be cast-in-place concrete with a min. 2500 psi compressive strength.

5. Guards are required at all areas where the deck/porch floor is greater than 30" above grade at any point.

6. Required guards shall be 36" tall (min.) and be constructed such that a 4" diameter object will not pass through.

7. Guard post spacing shall not exceed 6 ft. on center.

8. Required guards & handrails at stairs shall range from 34" to 38" vertically above the stair nosings.

9. Handrail ends, at the top and bottom, shall terminate into a post or be returned to a wall.

10. On stairs with closed risers, treads shall have a projected nosing ranging from 3/4" to 1-1/4". All treads and risers shall be equal.
11. The deck/porch floor shall be within 8-1/4" of the top of the door threshold.

12. Live Load Deflection: Joists & Beams- L/360
Guards- L/240

13. Design Loads: Floor Live Load - 40 lbs./sf (min.)
Wind Speed - 90 mph
Soil Bearing Pressure - 3000 lbs./sf

14. Guards shall be designed for a 200 lb. concentrated load placed along the top rail in any direction, at any point.

15. This deck/porch is not designed for hot-tub or spa loading.

16. All exterior stairs & associated landings shall be illuminated.

17. Post size is based on the height of the deck floor above finished grade (at the highest point):
0' to 8' high: 4x4, 4x6, 6x6
8' to 10' high: 4x6, 6x6
10' and up: 6x6 (required for multi-level decks too)

18. All separated beams shall receive full depth solid blocking at 24" on center, maximum spacing.

19. *The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval.*

Framing/Footing Table

[1] Choose one floor joist size with the associated span, [2] Choose one floor beam size. Entire row applies.

Floor Joists ^a			Floor Beams ^b			Footing Size				1/2" Ledger Board Bolts
Choose Joist Size	Lumber Size	Max. Span [A]	Choose One Row	Lumber Size	Max. Span [B]	Single-Span Floor Joists		Multi-Span Floor Joists		Spacing
	(nominal)	(feet)		(nominal)	(feet)	min. dia. [C]	min. thick [D]	min. dia. [C]	min. thick [D]	
[]	2 x 6	8	[]	(2) 2 x 6	5	12	6	15	8	24
			[]	(2) 2 x 8	7	13	7	19	10	24
			[]	(2) 2 x 10	9	15	8	23	12	24
			[]	(2) 2 x 12	11	17	9	24	12	24
[]	2 x 8	10	[]	(2) 2 x 8	7	14	7	20	10	16
			[]	(2) 2 x 10	9	17	9	24	12	16
			[]	(2) 2 x 12	10	18	9	25	13	16
[]	2 x 10	13	[]	(2) 2 x 10	8	17	9	24	12	16
			[]	(2) 2 x 12	9	18	9	26	13	16
[]	2 x 12	16	[]	(2) 2 x 12	8	20	10	28	14	12

a. Choose one joist size and cooresponding maximum span. All joists are spaced a maximum of 16" oc.

b. Choose one floor beam (entire row) that cooresponds with the size of joist chosen.

Beam to Post Connection Options

[3] Choose one beam to post connection option. [4] Choose one post size based on the height of the deck.

(see note 18)

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Min. 3/4" notch each side.

[] 4x4 posts (up to 8 ')

[] 4x6 posts (up to 10')

[] 6x6 posts req'd over 10')

[]

Min. 1-1/2" notch in post.

[] 4x4 posts (up to 8 ')

[] 4x6 posts (up to 10')

[] 6x6 posts req'd over 10')

[]

2x each side

[] 4x4 posts (up to 8 ')

[] 4x6 posts (up to 10')

[] 6x6 posts req'd over 10')

[]

Post cap connector

[] 4x4 posts (up to 8 ')

[] 4x6 posts (up to 10')

[] 6x6 posts req'd over 10')

Property Owner:	Designer:	Contractor:	Application No.
Name: _____	Name: _____	Name: _____	Sheet No. 1 of 4 Residential Deck Drawings
Address: _____	Address: _____	Address: _____	
Phone: _____	Phone: _____	Phone: _____	

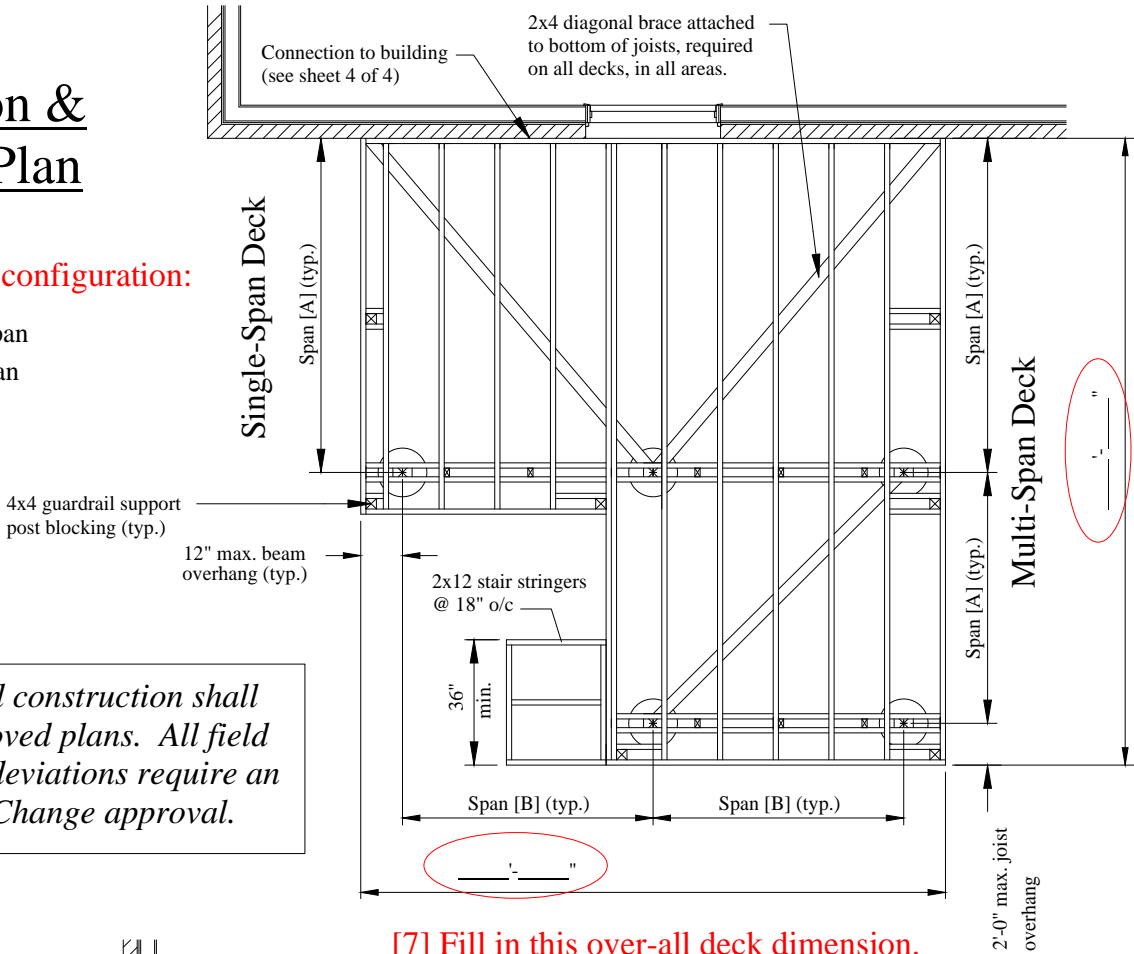
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Foundation & Framing Plan

[5] Choose one span configuration:

- ☐ Single-Span
- ☐ Multi-Span

The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval.

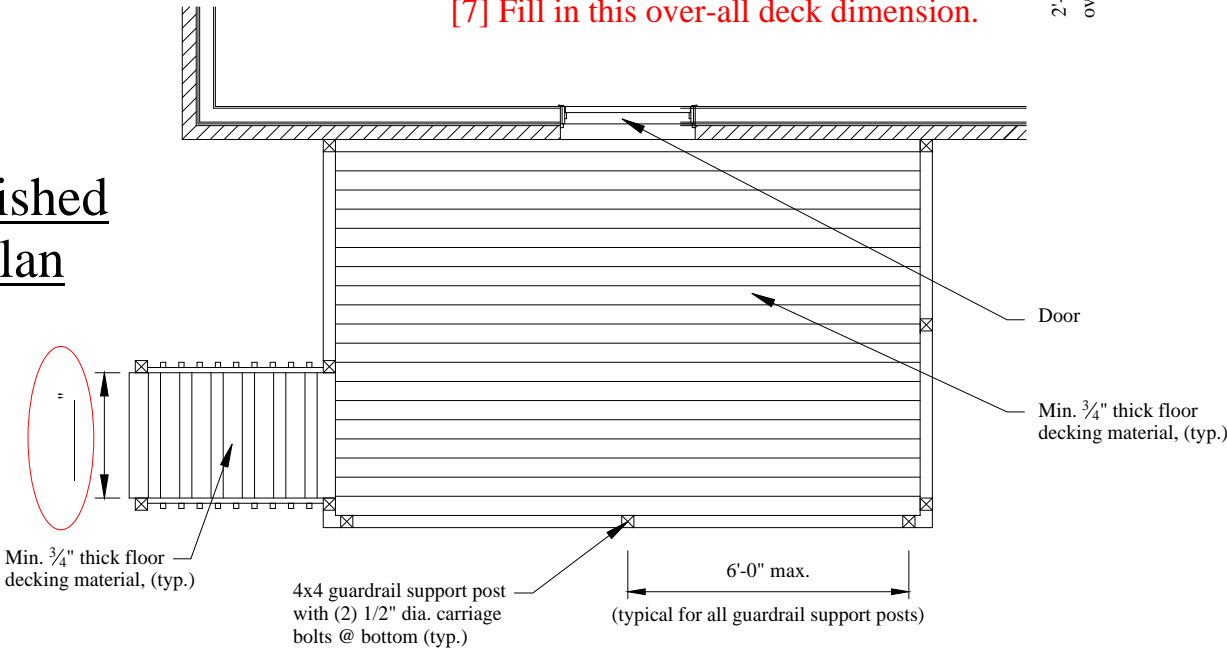


[6] Fill in this over-all deck dimension.

[7] Fill in this over-all deck dimension.

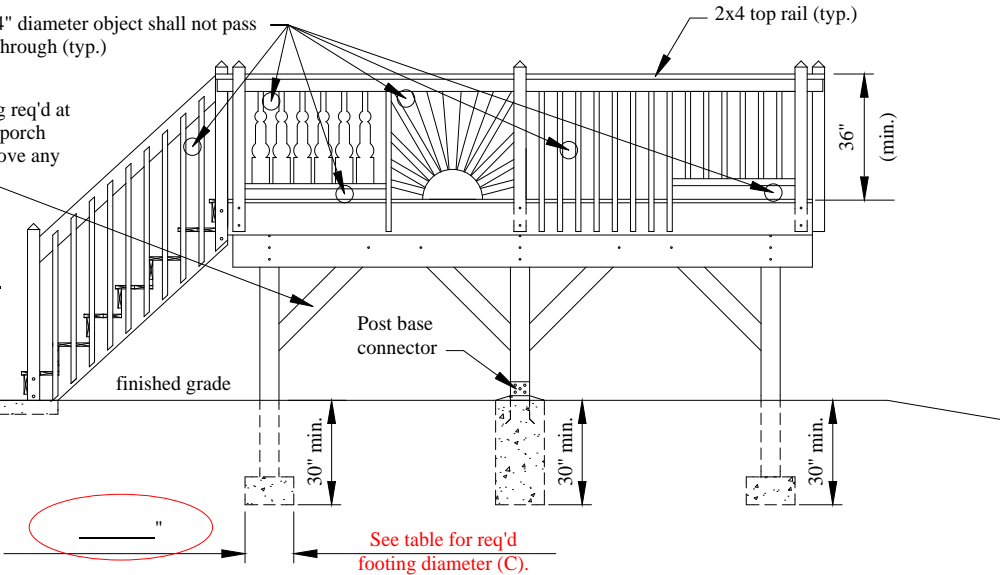
Deck Finished Floor Plan

[8] Fill in the stair width in inches (36" min.).



Front Elevation View

[9] Using the answer to Step 5, fill in the footing diameter in inches.



[10] Choose a footing option:

- ☐ Post attached to top of concrete footing
- ☐ Post on top of buried concrete footing

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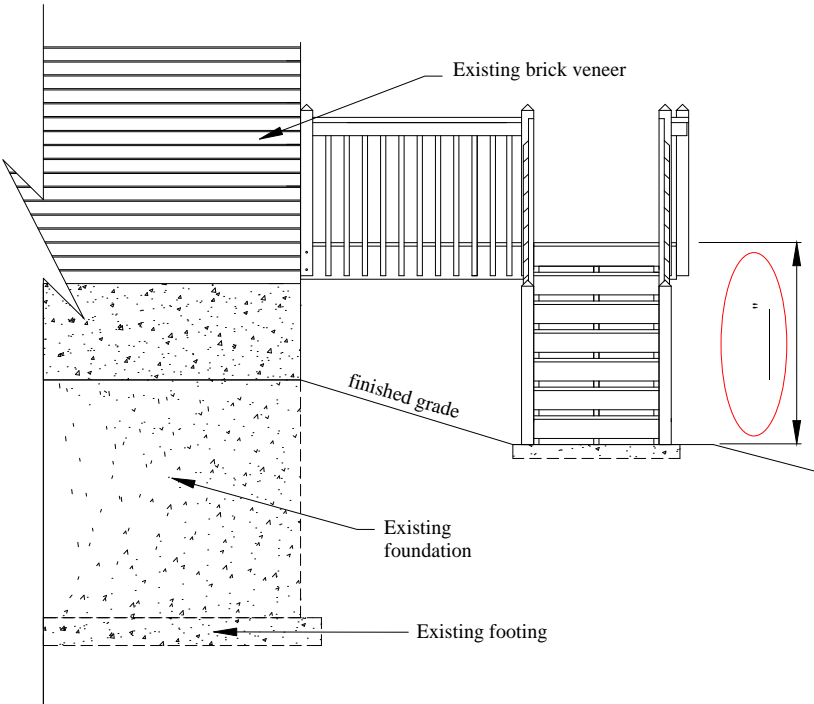
Sheet No.

2 of 4

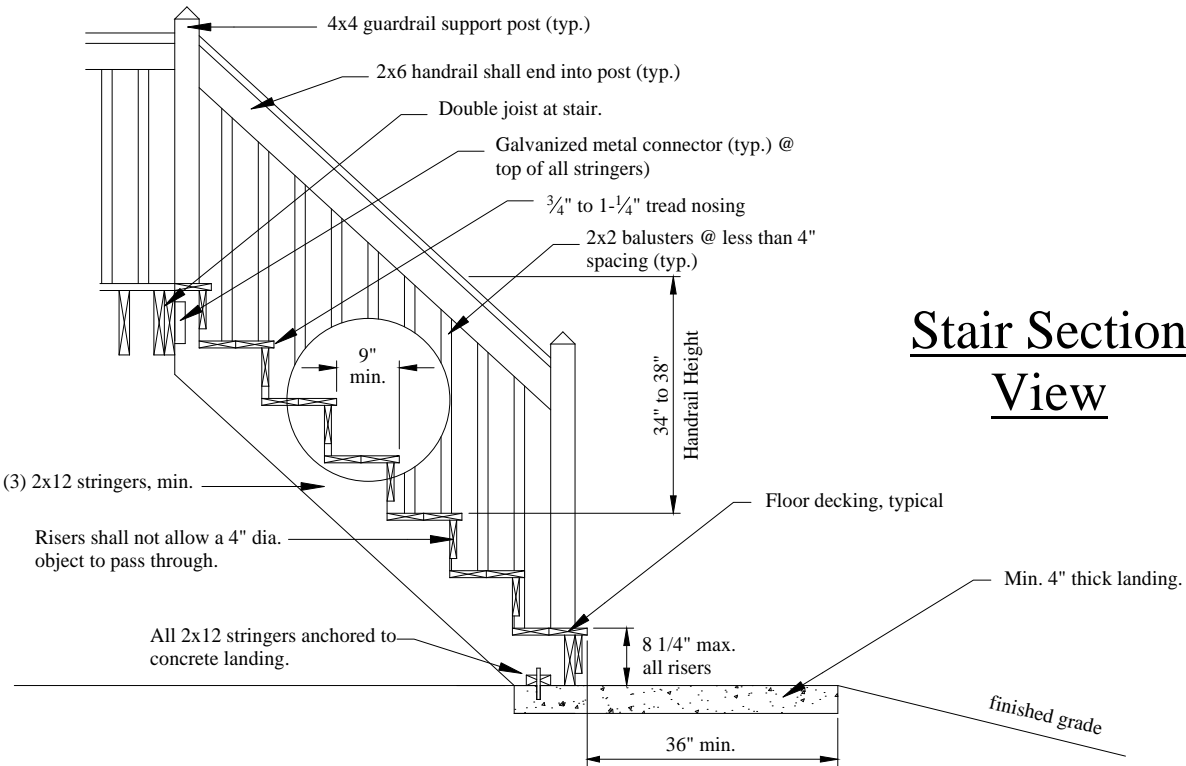
Residential Deck Drawings

Left Side
Elevation View

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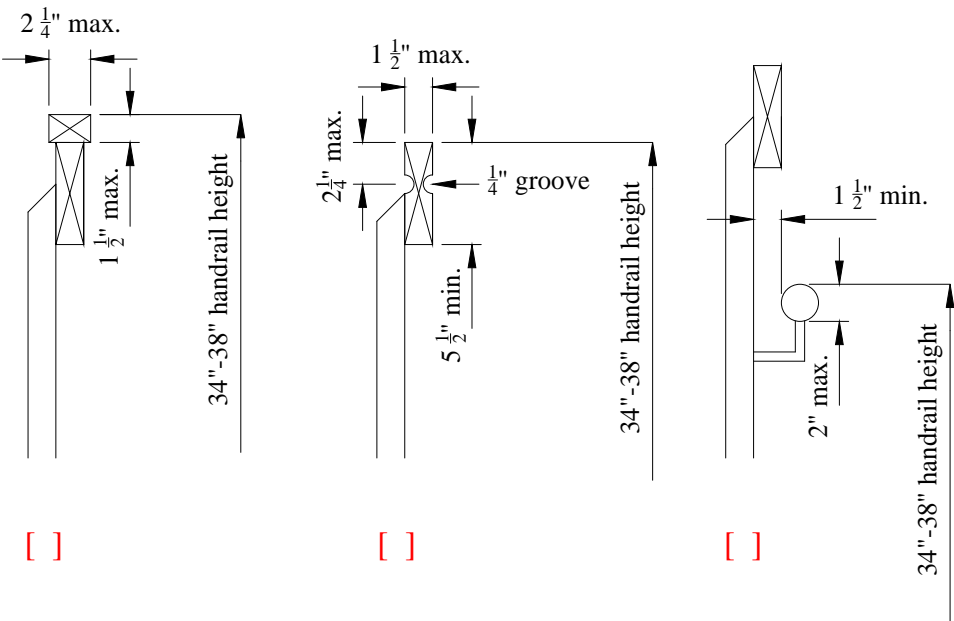


[11] Fill in the highest point above grade in inches.



Stair Section
View

Handrail
Sections



[12] Choose a handrail grip style:

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[]

[]

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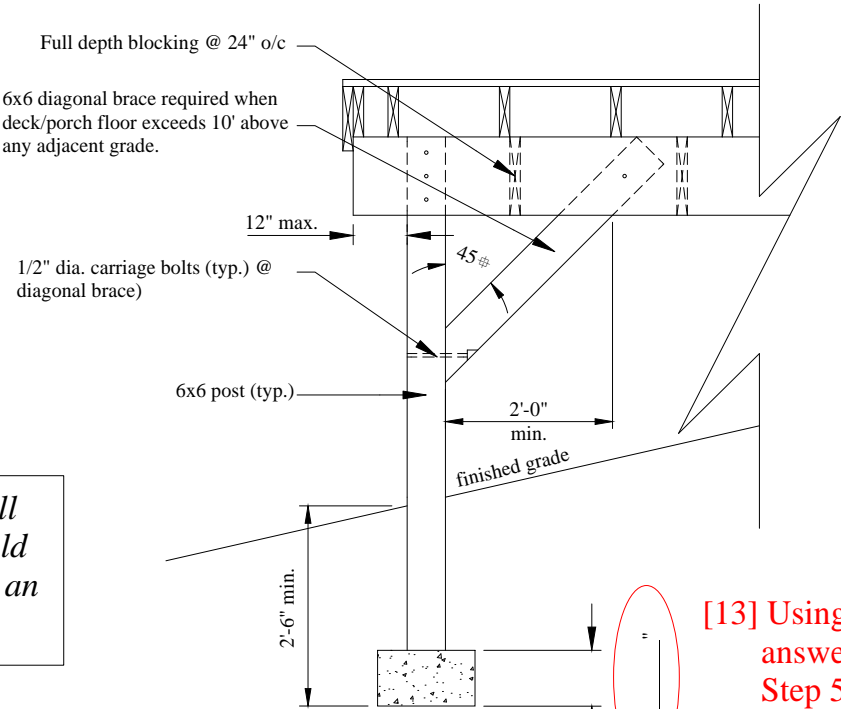
Sheet No.

3 of 4

Residential Deck Drawings

Post & Beam
Detail

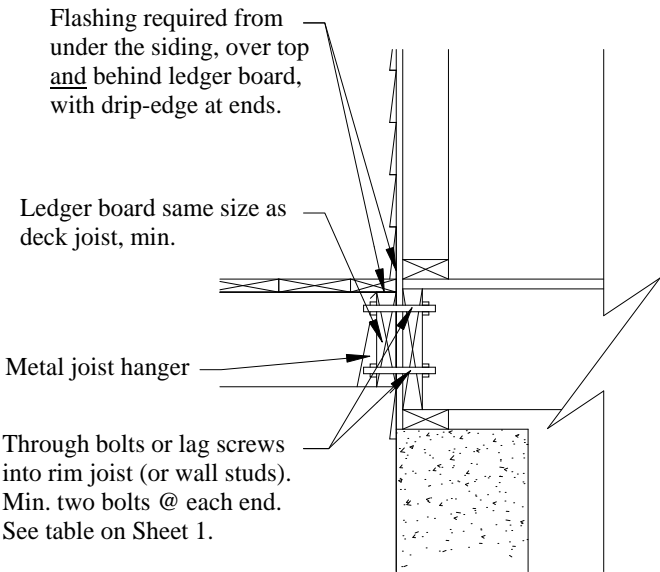
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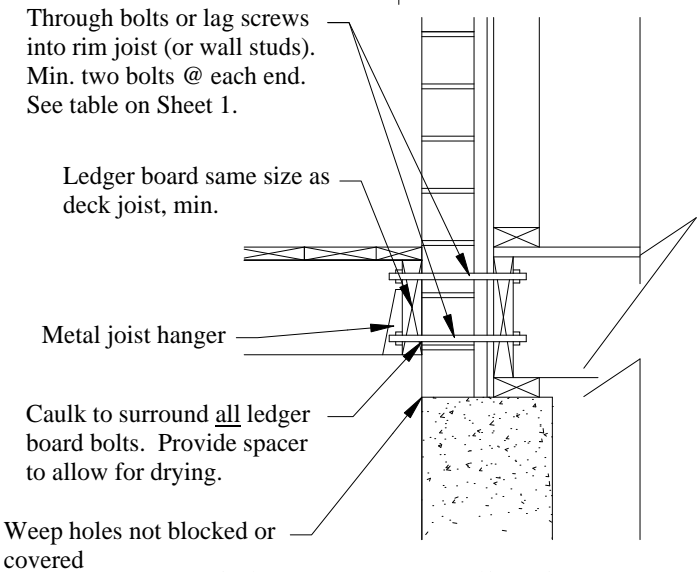
[13] Using the answer from Step 5, fill in the footing depth in inches.

Ledger Board Details

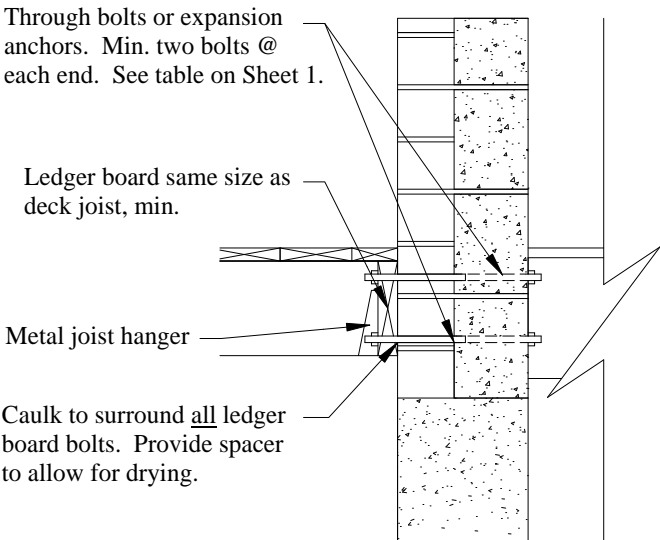
[14] Choose the ledger board detail that applies.



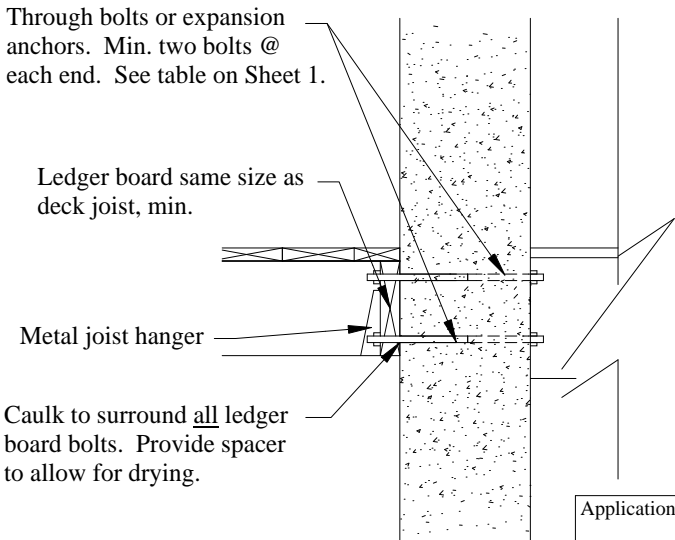
[] Siding Applications



[] Brick Veneer Applications



[] Brick/Block Applications



[] Concrete Applications

Application No.

Sheet No.

